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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/605,157 | 09/11/2003 | Howard Andrew Gutowitz | 2003,001/TS | 2156 |

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| EXAMINER |
|---|
| NGUYEN, TANH Q |

| ART UNIT | PAPER NUMBER |
|---|---|
| 2182 | |

DATE MAILED: 01/03/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

*-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --*

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

1) ☒ Responsive to communication(s) filed on *17 October 2005*.

2a) ☐ This action is **FINAL**.    2b) ☒ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

4) ☒ Claim(s) *1-20* is/are pending in the application.

    4a) Of the above claim(s) *2,4-6,12,13 and 20* is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) *1,7-11,14,16,18 and 19* is/are rejected.

7) ☒ Claim(s) *3,15 and 17* is/are objected to.

8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

## Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☒ The drawing(s) filed on *17 October 2005* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All    b)☐ Some *  c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

1) ☐ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date _____.

4) ☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .

5) ☐ Notice of Informal Patent Application (PTO-152)

6) ☐ Other: _____.

## DETAILED ACTION

### *Continued Examination Under 37 CFR 1.114*

1.     A request for continued examination under 37 CFR 1.114, including the fee set

forth in 37 CFR 1.17(e), was filed in this application after final rejection.  Since this

application is eligible for continued examination under 37 CFR 1.114, and the fee set

forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action

has been withdrawn pursuant to 37 CFR 1.114.  Applicant's submission filed on October

17, 2005 has been entered.

### *Election/Restrictions*

2.     Applicant's election with traverse in the reply filed May 24, 2005 of Invention I

(claims 1-16 and 18-20) and species of cHiragana to Kanji (claims 1, 3, 7-12, 14-16, 18,

19) was acknowledged in the prior office action.  As indicated in the prior office action

mailed July 5, 2005, the traversal of the election/restrictions requirement was not found

persuasive.  The requirement is still deemed proper and is therefore made FINAL.

In the prior office action mailed July 5, 2005, claim 1 is generic and found

allowable and the non-elected claims were rejoined.

Upon further review of the prior art, claim 1 was found not allowable.  Due to

applicant's amendment and the examiner review of the claims, claims 1, 3, 7-11, 14-19

constitute species cHiragana to Kanji, and are being examined.

3.     Claims 2, 4-6, 12-13, 20 are withdrawn from further consideration pursuant to 37

CFR 1.142(b), as being drawn to a nonelected species, there being no allowable

generic or linking claim.

4.      Upon the allowance of a generic claim, applicant will be entitled to consideration

of claims to additional species which are written in dependent form or otherwise include

all the limitations of the allowed generic claim as provided by 37 CFR 1.141.


### Claim Objections

5.      Claims 1, 3, 7-11, 14-19 are objected to because of the following informalities:

claim 1, line 16: "said generated symbol-input-end symbols" should be replaced

with "said generated symbol-input-end symbol" to have proper antecedent basis

claim 1, line 22: "correspond" should be changed to "corresponds" because the

subject of "corresponds" is the sequence of pre-conversion symbols (not the pre-

conversion symbols)

claim 9, line 2: "said selection" should be replaced with "said conversion" to have

proper antecedent basis

claim 10, line 4: a "." should be inserted at the end of the claim

claim 16, line 4: "determine" should be replaced with "determining" for

consistency

claim 16, line 5: "correspond" should be changed to "corresponds" because the

subject of "corresponds" is the set of keystroke sequences (not the keystroke

sequences)

claim 16, line 14: "correspond" should be changed to "corresponds" because the

subject of "corresponds" is the sequence of pre-conversion symbols (not the pre-

conversion symbols)

claim 16, line 17: "said subsequences" should be changed to "said subsequence"

to have proper antecedent basis

claim 17, line 1: "mechanism" should be replaced with "system" for proper

dependency

Appropriate correction is required.


### Claim Rejections - 35 USC § 102

6.      The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7.      Claims 1, 7-11, 14, 16, 18-19 rejected under 35 U.S.C. 102(e) as being

anticipated by Ouyang (USP 6,765,504).

8.      As per claim 1, Ouyang teaches a text-entry system [FIG. 1] based on trigger

sequences [e.g. 946641, FIG. 7] comprising

1) a plurality of keys [FIG. 4],

2) a plurality of pre-conversion symbols [symbols in INCOMPLETE REGION,

FIG. 7],

3) a plurality of post-conversion symbols [symbols in CONVERTED REGION,

FIG. 7], each of said post-conversion symbols set in a correspondence to a sequence of

said pre-conversion symbols [pre-conversion symbol zhong corresponding to the first

symbol in the CONVERTED REGION of FIG. 7],

4) a plurality of symbol-input-end symbols [for triggering conversion],

5) a display to display symbols [FIG. 7],

6) a first mechanism to display said pre-conversion symbols in response to

keystrokes [pre-conversion symbols being displayed in INCOMPLETE REGION

corresponding to inputted keystrokes, FIG. 7], and

7) a second mechanism to recognize trigger sequences and thereby trigger

conversion of a plurality of said pre-conversion symbols displayed on said display by

said first mechanism to a plurality of said post-conversion symbols [946641 triggering

conversion of pre-conversion symbol zhong to a post-conversion symbol in

CONVERTED REGION, FIG. 7],

said trigger sequences comprising a subsequence of said keystrokes, said

subsequence comprising at least two of said keystrokes [94664 and 1 in the sequence

946641] such that the first of said keystrokes in said subsequence causes said first

mechanism to display one of said pre-conversion symbols [94664 of the sequence

946641 causes display of pre-conversion symbols xiong and zhong, FIG. 7], and the

second of said keystrokes in said subsequence generates one of said symbol-in-put-

end symbols, where said generated symbol-in-put-end symbols applies to said

displayed pre-conversion symbol [1 in the sequence 946641 triggering the conversion of

pre-conversion symbol zhong to a corresponding post-conversion symbol in the

CONVERTED REGION, FIG. 7 - hence inherently generating a symbol-input-end

symbol], and where said second keystroke does not additionally display any of said pre-

conversion symbols which follow said one pre-conversion symbol in any sequence of

said pre-conversion symbols [1 in the sequence 946641 does not display any pre-

conversion symbol which follows zhong or xiong, FIG. 7], whereby upon recognition of

one of said trigger sequences, conversion of a plurality of said displayed pre-conversion

symbols to a plurality of said post-conversion symbols is effected without the need for a

keystroke on a dedicated convert key [upon recognition of trigger sequence

946648607362, conversion of pre-conversion symbol sen to a corresponding post-

conversion symbol is effected without a dedicated key - as key 2 is not a dedicated key].

9.      As per claims 7-11, 14, 18-19, Ouyang teaches a third mechanism to convert

said pre-conversion symbols to said post-conversion symbols [600, FIG. 1], the third

mechanism is physically remote from said first mechanism [600 is physically remote

from 200, 400 - FIG. 1], the third mechanism performs said selection based on the

context of other symbols previously input [FIG. 7];

        a predictive text mechanism operating to select said pre-conversion symbols for

display based on the context of other symbols previously input [FIG. 7];

        at least one Next key for advancing the display of symbols [e.g. 1 in sequence

946641];

        the pre-conversion symbols are comprised of words [e.g. xiong and zhong - FIG.

7] and the text-entry system comprising a word-completion mechanism [400, FIG. 1].

10.     As per claim 16, Ouyang teaches a method for constructing trigger sequences for

a text-entry system comprising the steps of

1) selecting a set of pre-conversion [pinyin symbol] and post-conversion symbols

[Chinese characters],

2) selecting a text-entry mechanism [FIG. 4; col. 8, ll. 6-13],

3) determining the set of keystroke sequences which corresponds to the set of

possible texts to be entered using said text-entry system [e.g. sequence 946641

corresponds to zhong - FIG. 7],

4) for each pre-conversion symbol generated by each of said keystroke

sequence in said set of keystroke sequences, finding a subsequence of said keystrokes

such that a) one of said keystrokes in said subsequence displays one of said pre-

conversion symbol and b) another of said keystrokes in said subsequence i) generates

a symbol-input-end symbol which applies to said one pre-conversion symbol, and ii)

does not additionally display any of said pre-conversion symbols which follow said one

pre-conversion symbol in any sequence of said pre-conversion symbols which

corresponds to one of said post-conversion symbols [see rejection of claim 1 above],

and

5) returning to said step of selecting said set of said pre-conversion and said

post-conversion symbols in the event that said step of finding said subsequence fails to

produce satisfactory subsequences [in the event that there is no corresponding or

possible pinyin symbol combination present [S306, FIG. 2], return to the first step to try

another sequence].

### *Allowable Subject Matter*

11.     Claims 3, 15, 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### *Response to Arguments*

12.     Applicant's arguments filed October 17, 2005 have been considered but are moot in view of the new ground(s) of rejection.

### *Conclusion*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tanh Quang Nguyen whose telephone number is (571) 272-4154 and whose e-mail address is tanh.nguyen36@uspto.gov.  The examiner can normally be reached on Monday-Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Huynh, can be reached on (571) 272-4147. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300 for After Final, Official, and Customer Services, or (571) 273-4154 for Draft to the Examiner (please label "PROPOSED" or "DRAFT").
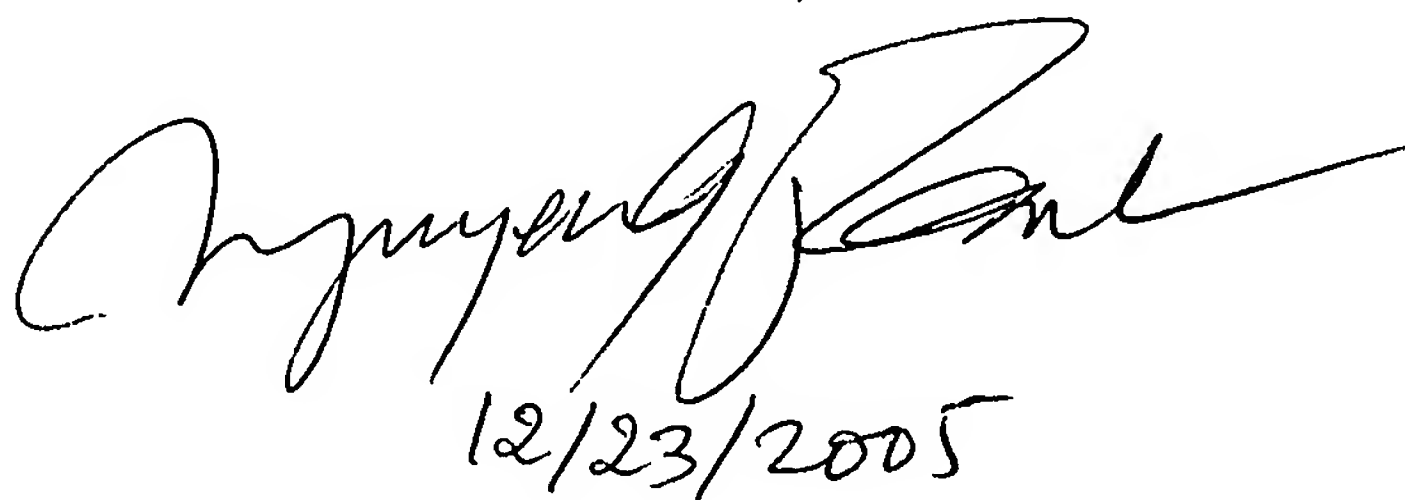
Effective May 1, 2003 are new mailing address is:

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Effective December 1, 2003, hand-carried patent application related incoming correspondences would be to a centralized location.

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12/23/2005

TQN
December 23, 2005